

IN THE ABSTRACT

The invention concerns aA method for receiving a signal modulated according to a multilevel coding technique, comprising at least two coding levels each having different noise robustness, said signal including a plurality of symbols each comprising at least one bit, assigned to one of said coding levels, said method comprising at least one decoding iteration including successive steps of decoding each of said received bits, at least one of said decoding steps integrated the result of at least one possible previous decoding step. The invention is characterized in that it consists in decoding said bits according to a predetermined sequence taking into account the robustness of said levels, the bit(s) assigned to the decoding level having the higher noise robustness, called most robust level, being decoded first.